JOURNAL OF BEHAVIORAL MEDICINE —Volume 20, 1997

The *Journal of Behavioral Medicine* is a broadly conceived interdisciplinary publication devoted to furthering our understanding of physical health and illness through the knowledge and techniques of behavioral science. Application of this knowledge to prevention, treatment, and rehabilitation is also a major function of the journal, which will include papers from all disciplines engaged in behavioral medicine research: psychology, psychiatry, sociology, epidemiology, anthropology, health economics, and biostatistics. Examples of typical research areas of interest include: the study of appetitive disorders (alcoholism, smoking, obesity) that serve as physical risk factors; adherence to medical regimen and health maintenance behavior; pain; self-regulation therapies and biofeedback for somatic disorders; sociocultural influences on health and illness; and brain–behavioral relationships that influence physiological function. Articles considered for publication include: theoretical and review articles, experimental studies, technical and methodological articles, and case studies.

EDITOR-IN-CHIEF

W. Doyle Gentry, Ph.D., Department of Behavioral Medicine and Psychiatry, University of Virginia Medical School, Charlottesville, Virginia

EDITORIAL BOARD

W. Stewart Agras, M. D., Stanford University School of Medicine
Ivan Barofsky, Ph.D., National Cancer Institute
Marshall H. Becker, P.H.D., M.P.H., The University of Michigan
Herbert Benson, M.D., Harvard Medical School
Anthony Biglan, Ph.D., Oregon Research Institute
Edward B. Blanchard, Ph.D., State University of New York at Albany
Joseph V. Brady, Ph.D., Johns Hopkins University School of Medicine
Bernard T. Engel, Ph.D., Gerontology Research Center, NIH
John W. Farquhar, M.D., Stanford University School of Medicine
John P. Foreyt, Ph.D., Baylor College of Medicine
Bernard H. Fox, Ph.D., Boston University School of Medicine
Thomas F. Garrity, Ph.D., University of Kentucky College of Medicine
Ronald Glaser, M.D., The Ohio State University College of Medicine
William B. Hansen, Ph.D., Wake Forest University Bowman Gray School of Medicine
Stephen N. Haynes, Ph.D., University of Hawaii
James S. House, Ph.D., University of Michigan
Ernest H. Johnson, Ph.D., Morehouse School of Medicine
Berton H. Kaplan, Ph.D., University of North Carolina, Chapel Hill
Stanislav V. Kasl, Ph.D., Yale University School of Medicine
Edward S. Katkin, Ph.D., State University of New York, Buffalo
Janice Kiecolt-Glaser, Ph.D., Ohio State College of Medicine
Richard S. Lazarus, Ph.D., University of California, Berkeley
Russell V. Luepker, M.D., University of Minnesota
Sharon Manne, Ph.D., Memorial Sloan-Kettering Cancer Center
Joseph D. Matarazzo, Ph.D., Oregon Health Sciences University
Edward McAuley, Ph.D., University of Illinois at Urbana-Champaign
Angele McGrady, Ph.D., Medical College of Ohio
David Mechanic, Ph.D., Rutgers University
Ronald Melzack, Ph.D., McGill University
Neal E. Miller, Ph.D., Rockefeller University
Rudolf H. Moos, Ph.D., Stanford University Medical Center
David I. Mostofsky, Ph.D., Boston University
Ovide F. Pomerleau, Ph.D., University of Michigan
Ray H. Rosenman, M.D., SRI International
Joseph Schachter, M.D., Ph.D., University of Pittsburg
Richard B. Shekelle, Ph.D., Rush-Presbyterian-St. Lukes Medical Center
Jerry Suls, Ph.D., State University of New York, Albany
S. Leonard Syme, Ph.D., University of California, Berkeley
Stephen M. Weiss, Ph.D., National Institutes of Health
Redford B. Williams, Jr., M.D., Duke University Medical Center

Journal of Behavioral Medicine is published bimonthly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. *Journal of Behavioral Medicine* is abstracted or indexed in Adolescent Mental Health Abstracts, Beck Medical Information, Behavioral Abstracts, Biological Abstracts, BIS Conference Report–Brain Information Service, Clinical Behavior Therapy Review, Clinician's Research Digest, Cumulative Index to Nursing & Allied Health Literature, Current Contents, Excerpta Medica, Family Resources Database, Health Instrument File, Health Promotion and Education Database, Mental Health Abstracts, Psychological Abstracts, Referativnyi Zhurnal, Social Sciences Citation Index, Social Work Research & Abstracts, and Sociological Abstracts.

© 1997 Plenum Publishing Corporation.

Journal of Behavioral Medicine participates in the Copyright Clearance Center (CCC) Transactional Reporting Service. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the flat fee of $12.50 per copy per article (no additional per-page fees) directly to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, Massachusetts 01923, for all copying not explicitly permitted by Sections 107 or 108 of the U.S. Copyright Law. The CCC is a nonprofit clearinghouse for the payment of photocopying fees by libraries and other users registered with the CCC. Therefore, this consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and text excerpts. 0160-7715/97 $12.50

Advertising inquiries should be addressed to Advertising Sales, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013—telephone (212) 620-8495 and fax (212) 647-1898.

Subscription inquiries and subscription orders should be addressed to the publisher at Subscription Department, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013 or faxed to the Subscription Department at its number (212) 807-1047, or may be telephoned to the Subscription Department's Journal Customer Service at (212) 620-8468, -8470, -8472, or -8082. Subscription rates:

Volume 20, 1997 (6 issues) $355.00 (outside the U.S., $415.00). Price for individual subscribers certifying that the journal is for their personal use, $51.00 (outside the U.S., $60.00).

Volume 21, 1998 (6 issues)—Traditional **print** subscription: $395.00 (outside the U.S., $460.00). Price for individual subscribers certifying that the journal is for their personal use, $54.00 (outside the U.S., $63.00). **Electronic** subscription: $395.00 (outside the U.S., $435.00). **Combination** print and electronic subscription: $495.00 (outside the U.S., $580.00).

Periodicals postage paid at New York, N.Y., and at additional mailing offices. Postmaster: send address changes to *Journal of Behavioral Medicine*, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013.

Printed in the USA.

Journal of Behavioral Medicine is published bimonthly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. Subscription orders should be addressed to the publisher. Advertising inquiries should be addressed to Advertising Sales, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013–telephone (212) 620-8495 and fax (212) 647-1898. *Journal of Behavioral Medicine* is abstracted or indexed in Adolescent Mental Health Abstracts, Beck Medical Information, Behavioral Abstracts, Biological Abstracts, BIS Conference Report–Brain Information Service, Clinical Behavior Therapy Review, Clinician's Research Digest, Cumulative Index to Nursing & Allied Health Literature, Current Contents, Excerpta Medica, Family Resources Database, Health Instrument File, Health Promotion and Education Database, Mental Health Abstracts, Psychological Abstracts, Referativnyi Zhurnal, Social Sciences Citation Index, Social Work Research & Abstracts, and Sociological Abstracts. © 1997 Plenum Publishing Corporation. *Journal of Behavioral Medicine* participates in the Copyright Clearance Center (CCC) Transactional Reporting Service. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the flat fee of $12.50 per copy per article (no additional per-page fees) directly to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, Massachusetts 01923, for all copying not explicitly permitted by Sections 107 or 108 of the U.S. Copyright Law. The CCC is a nonprofit clearinghouse for the payment of photocopying fees by libraries and other users registered with the CCC. Therefore, this consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and text excerpts. 0160-7715/97 $12.50

Journal of Behavioral Medicine

Vol. 20, No. 1 **February 1997**

CONTENTS

Feelings of Parental Caring Predict Health Status in Midlife: A 35-Year Follow-up of the Harvard Mastery of Stress Study 1
Linda G. Russek and Gary E. Schwartz

The Availability of Social Support Reduces Cardiovascular Reactivity to Acute Psychological Stress 15
Bert N. Uchino and Timothy S. Garvey

The Outward Expression of Anger, the Inward Experience of Anger and CVR: The Role of Vocal Expression 29
Aron Wolfe Siegman and Selena Cappell Snow

Potential for Hostility and Faking-Good in High-Hostile Men 47
Karina Davidson and Peter Hall

Prevalence and Effectiveness of Self-Regulatory Techniques Used to Avoid Drunk Driving 55
Stephen L. Brown

Exercise and Self-Esteem in Middle-Aged Adults: Multidimensional Relationships and Physical Fitness and Self-Efficacy Influences 67
Edward McAuley, Shannon L. Mihalko, and Susan M. Bane

The Effect of Selected Classical Music and Spontaneous Imagery on Plasma β-Endorphin 85
Cathy H. McKinney, Frederick C. Tims, Adarsh M. Kumar, and Mahendra Kumar

Journal of Behavioral Medicine

Vol. 20, No. 2 **April 1997**

CONTENTS

Supportive and Negative Responses in the Partner Relationship: Their Association with Psychological Adjustment Among Individuals with Cancer 101
Sharon L. Manne, Kathryn L. Taylor, James Dougherty, and Nancy Kemeny

Predictors of Childbirth Pain and Maternal Satisfaction 127
Dawn Dannenbring, Michael J. Stevens, and Alvin E. House

Take Heart II: Replication of a Worksite Health Promotion Trial 143
Russell E. Glasgow, James R. Terborg, Lisa A. Strycker, Shawn M. Boles, and Jack F. Hollis

Hostility, Social Support, and Ambulatory Cardiovascular Activity 163
Eric G. Benotsch, Alan J. Christensen, and Laura McKelvey

The Relationship Between Daily Life Stress and Gastrointestinal Symptoms in Women with Irritable Bowel Syndrome 177
Rona L. Levy, Kevin C. Cain, Monica Jarrett, and Margaret M. Heitkemper

Validating the MPI-DLV Using Experience Sampling Data 195
R. Lousberg, A. J. M. Schmidt, N. H. Groenman, L. Vendrig, and C. I. M. Dijkman-Caes

Skin Type and Optimistic Bias in Relation to the Sun Protection and Suntanning Behaviors of Young Adults 207
Valerie A. Clarke, Tracy Williams, and Stephen Arthey

Journal of Behavioral Medicine

Vol. 20, No. 3 **June 1997**

CONTENTS

An Exploration of the Relation Between Hostility and Disease 223
Adelita V. Ranchor, Robbert Sanderman, Jelte Bouma, Bram P. Buunk, and Wim J. A. van den Heuvel

The Impact of Psychosocial Features of Employment Status on Emotional Distress in Chronic Pain and Healthy Comparison Samples 241
Todd Jackson, Anthony Iezzi, and Kathryn Lafreniere

The Effects of Medical Evidence and Pain Intensity on Medical Student Judgments of Chronic Pain Patients 257
John T. Chibnall, Raymond C. Tait, and Lisa R. Ross

Illness Self-Schemas in Depressed and Nondepressed Rheumatoid Arthritis Patients 273
Philip A. Clemmey and Perry M. Nicassio

The Assessment of Diabetes-Related Cognitive and Social Factors: The Multidimensional Diabetes Questionnaire 291
France Talbot, Arie Nouwen, Julie Gingras, Marjolaine Gosselin, and Jean Audet

Journal of Behavioral Medicine

Vol. 20, No. 4 **August 1997**

CONTENTS

Efficacy of Emotion-Focused and Problem-Focused Group Therapies for Women with Fertility Problems 313
Debra A. McQueeney, Annette L. Stanton, and Sandra Sigmon

Hiding Worries from One's Spouse: Associations Between Coping via Protective Buffering and Distress in Male Post-Myocardial Infarction Patients and Their Wives 333
Jerry Suls, Peter Green, Gail Rose, Patricia Lounsbury, and Ellen Gordon

Employee Stress Levels and the Intention to Participate in a Worksite Smoking Cessation Program 351
Wen-Fang Chan and Catherine A. Heaney

Application of Azjen's Theory of Planned Behavior to Predict Sunbathing, Tanning Salon Use, and Sunscreen Use Intentions and Behaviors 365
Joel J. Hillhouse, Christine M. Adler, Joy Drinnon, and Rob Turrisi

Daily Activity Level Buffers Stress–Glycemia Associations in Older Sedentary NIDDM Patients 379
Kathleen S. Aikens, James E. Aikens, Jan L. Wallander, and Steve Hunt

Differences Between Treatment Seekers in an Obese Population: Medical Intervention vs. Dietary Restriction 391
Melinda L. Higgs, Tracey Wade, Mark Cescato, Michelle Atchison, Anthony Slavotinek, and Bruce Higgins

Identification of Beck Depression Inventory Items Related to Multiple Sclerosis 407
David C. Mohr, Donald E. Goodkin, William Likosky, Larry Beutler, Nicole Gatto, and Michele K. Langan

Journal of Behavioral Medicine

Vol. 20, No. 5 **October 1997**

CONTENTS

Social Determinants of Experienced Anger 415
Wolfgang Linden, Deborah Leung, Anuradha Chawla, Carmen Stossel, Thomas Rutledge, and Sheryl A. Tanco

A Replicated Prospective Investigation of Life Stress, Coping, and Depressive Symptoms in Multiple Sclerosis 433
J. E. Aikens, J. S. Fischer, M. Namey, and R. A. Rudick

Four-Year Stability of Cardiovascular Reactivity to Psychological Stress 447
Ralf Veit, Stuart Brody, and Harald Rau

Defensiveness and Perception of External Inspiratory Resistive Loads in Asthma 461
Susan Isenberg, Paul Lehrer, and Stuart Hochron

Hypertension and Sickness Absence: The Role of Perceived Symptoms 473
Samuel Melamed, Paul Froom, and Manfred S. Green

Determinants of Psychological Distress and Its Course in the First Year After Diagnosis in Rheumatoid Arthritis Patients 489
A. W. M. Evers, F. W. Kraaimaat, R. Geenen, and J. W. J. Bijlsma

Journal of Behavioral Medicine

Vol. 20, No. 6 **December 1997**

CONTENTS

Anger Management Style and Hostility: Predicting Symptom-Specific Physiological Reactivity Among Chronic Low Back Pain Patients 505
John W. Burns

Examining the Reciprocal Relation Between Academic Motivation and Substance Use: Effects of Family Relationships, Self-Esteem, and General Deviance 523
Judy A. Andrews and Susan C. Duncan

Cardiovascular Reactivity to a Naturally Occurring Stressor: Development and Psychometric Evaluation of a Psychophysiological Assessment Procedure 551
Richard L. Hazlett, Shelley Falkin, William Lawhorn, Elizabeth Friedman, and Stephen N. Haynes

Apolipoprotein E Phenotypes and Cardiovascular Responses to Experimentally Induced Mental Stress in Adolescent Boys 571
Niklas Ravaja, Katri Räikkönen, Heikki Lyytinen, Terho Lehtimäki, and Liisa Keltikangas-Järvinen

Factor Structure, Reliability, and Validity of the Pain Catastrophizing Scale 589
Augustine Osman, Francisco X. Barrios, Beverly A. Kopper, Wendy Hauptmann, Jewel Jones, and Elizabeth O'Neill

Psychological Effects of Dietary Fat Analysis and Feedback: A Randomized Feedback Design 607
Elizabeth A. Fries, Deborah J. Bowen, Helen P. Hopp, and Kamila S. White